



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/715,087	11/20/2000	Akira Ishida	P101201-00009	7871

7590 07/20/2004

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC  
Suite 600  
1050 Connecticut Avenue, N.W.  
Washington, DC 20036-5339

EXAMINER
----------

IQBAL, KHAWAR

ART UNIT	PAPER NUMBER
----------	--------------

2686

12

DATE MAILED: 07/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/715,087

**Applicant(s)**

ISHIDA, AKIRA

**Examiner**

Khawar Iqbal

**Art Unit**

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_\_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 9-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 9-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 9-14 are rejected under 35 U.S.C. 102(e) as being unpatentable by Akihiro et al (JP 09-284200).

Regarding claim 9 Akihiro et al teaches a wireless base station that transmits a control signal to a non-specific mobile station by forming an omnidirectional antenna pattern and transmits a control signal to a specific mobile station by forming an array antenna pattern, the wireless base station comprising (figs. 1,3):

a judging unit operable to, when the control signal is to be transmitted to the specific mobile station, refer to a reception condition of and a time lapse from, an immediately preceding reception from a mobile station and judge if one or both of the reception condition and the time lapse satisfy a predetermined criterion (para. 0020-0025, 0066-0069); and

a controlling unit operable to, when the judging unit judges in the affirmative, stop the wireless base station from forming the array antenna pattern and force the wireless

base station to transmit the control signal by forming an omnidirectional antenna pattern (para. 0020-0025, 0066-0069).

Regarding claim 10 Akihiro et al teaches wherein the control signal transmitted to the specific mobile station includes a message representing a link channel establishing request, a link channel establishing re-request, a link channel allocation request, or a link channel allocation rejection (para. 0020-0025, 0066-0069).

Regarding claim 11 Akihiro et al teaches when the control signal is transmitted to the specific station, the judging unit judge that the reception condition of the immediately preceding reception from the mobile station satisfies the predetermined criterion, when a link channel establishing request is received in the immediately preceding reception and a difference that is between received reference signal has been stored and is equal to or larger than a threshold value (para. 0020-0025,0038, 0066-0069).

Regarding claim 12 Akihiro et al teaches wherein when the judging unit judges in the negative, the controlling unit controls the wireless base station so that the transmission using the array antenna pattern is performed with a raised transmission power (para. 0020-0025, 0066-0069).

Regarding claim 13 Akihiro et al teaches wherein when the controlling unit forces the wireless base station to transmit the control signal by forming the omnidirectional antenna pattern, in a case where a reception field strength of the mobile station is high, the controlling unit controls the wireless base station so that a transmission power is lowered temporarily (para. 0020-0025, 0066-0069).

Regarding claim 14 Akihiro et al teaches a controlling method to be used by a wireless base station that transmits a control signal to a non-specific mobile station by forming an omnidirectional antenna pattern and transmits a control signal to a specific mobile station by forming an array antenna pattern, the controlling method comprising (figs. 2,3):

when the control signal is to be transmitted to the specific mobile station, referring to a reception condition of and a time lapse from, an immediately preceding reception from a mobile station and judging if one or both of the reception condition and the time lapse satisfy a predetermined criterion (para. 0020-0025, 0066-0069); and

when the judgment is in the affirmative, stopping the wireless base station from forming the array antenna pattern and forcing the wireless base station to transmit the control signal by forming an omnidirectional antenna pattern (para. 0020-0025, 0066-0069).

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 9-14 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAWAR IQBAL whose telephone number is 703-306-3015.

Art Unit: 2686

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **BANKS-HAROLD, MARSHA**, can be reached at 703-305-4379.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231


**or faxed to:**

**(703) 872-9314 (for Technology Center 2684 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

**Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.**

**Khawar Iqbal**

  
**CHARLES APPIAH  
PRIMARY EXAMINER**